

ABSTRACT OF THE DISCLOSURE

A rotation transmission device is provided in which the two-way clutch is prevented from engaging while the inner member is rotating not engaged with the outer member. The two-way roller clutch includes an outer member, a cam ring mounted in the outer member, a plurality of rollers each mounted between the cylindrical surface of the outer member and one of the cam surfaces on the cam ring, and a retainer for retaining the rollers. The device further comprises a rotor mounted between the solenoid and the retainer so as to be nonrotatable relative to the outer ring, an armature mounted so as to be nonrotatable relative to the retainer and axially movable, and a spring for axially biasing the armature away from the rotor, and an engaging plate mounted so as to be nonrotatable relative to the inner member and axially immovable. An arrangement is provided for engaging the armature and the engaging plate together when the armature rotates in one direction by a predetermined angle relative to the engaging plate, thereby preventing the armature from further turning relative to the engaging plate.

Also, a clutch outer ring formed of a high-strength material is mounted in the outer ring to increase the allowable surface pressure and the outer

ring is formed of a casting.